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SECRET

MONTHLY REPORT

Contract [redacted]

25X1

PAR 217

3 May 65

SUBJECT: Optimization of Lasers

TASK/PROBLEM

1. Explore the production of 0.53 micron (blue-green) laser radiation by harmonic doubling in KDP and ADP crystals.

DISCUSSION

2. During this month, we have continued a literature search to provide information for a possible comparison of the harmonic doubling system with other visible light laser systems. A wide variety of journals, abstracts and bibliographies were searched for the period between June 63 and Oct 64. A list is given in the appendix to this report.

3. The published material studied so far does not discuss beam uniformity, angular divergence, mode control, etc. with regard to photographic applications. It appears we will not be able to compare the visible light laser systems upon all factors of interest in these applications.

4. No work has been done on the beam structure study during this month.

PLANNED ACTIVITY

5. In the next month, we expect to continue the search for material, and performance data on other visible-light lasers.

Declass Review by
NIMA/DOD

NOTE: See Appendix "A".

GROUP 1
Excluded from automatic downgrading and declassification
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